

MONTHLY BULLETIN  
OF  
THE OBSERVATORY

AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT.  $33^{\circ} 54' 22''$  N.

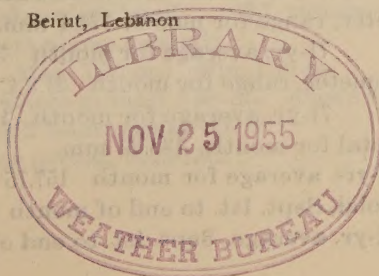
LONG. E. FROM GREENWICH  $35^{\circ} 28' 10''$

February 1950

ROBERT W. SLOANE, DIRECTOR

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FEBRUARY 1950  
METEOROLOGICAL REGISTER

| Date | Barometer reduced to 0°C<br>Sea level and<br>45° Latitude<br>700 mm. + ... |       |       |       | Thermometer<br>Degrees Centigrade |      |       |       |       |       |
|------|----------------------------------------------------------------------------|-------|-------|-------|-----------------------------------|------|-------|-------|-------|-------|
|      | 8:30                                                                       | 14:30 | 20:30 | Mean  | Max.                              | Min. | 8:30  | 14:30 | 20:30 | Mean  |
| 1    | 54.4                                                                       | 52.3  | 58.0  | 54.9  | 13.8                              | 8.5  | 9.9   | 13.3  | 10.5  | 11.2  |
| 2    | 61.1                                                                       | 61.1  | 61.6  | 61.3  | 14.0                              | 9.1  | 11.1  | 13.3  | 10.8  | 11.7  |
| 3    | 59.2                                                                       | 57.2  | 57.7  | 58.0  | 11.8                              | 4.1  | 9.9   | 11.1  | 8.9   | 10.0  |
| 4    | 58.6                                                                       | 58.4  | 58.8  | 58.6  | 5.8                               | 1.6  | 6.1   | 4.4   | 5.3   | 5.3   |
| 5    | 55.6                                                                       | 55.1  | 59.4  | 56.7  | 6.3                               | 0.6  | 2.8   | 5.5   | 4.4   | 4.2   |
| 6    | 64.0                                                                       | 66.0  | 69.7  | 66.6  | 8.0                               | 0.6  | 0.9   | 1.6   | 3.2   | 1.9   |
| 7    | 73.4                                                                       | 73.1  | 74.7  | 73.6  | 11.4                              | 5.4  | 8.0   | 11.0  | 6.7   | 8.6   |
| 8    | 72.5                                                                       | 68.7  | 68.1  | 69.8  | 12.4                              | 6.9  | 9.5   | 11.8  | 8.3   | 9.9   |
| 9    | 63.7                                                                       | 61.6  | 61.5  | 62.3  | 14.7                              | 7.9  | 9.4   | 13.6  | 9.9   | 11.0  |
| 10   | 61.6                                                                       | 62.2  | 63.1  | 62.3  | 16.1                              | 9.3  | 11.6  | 14.9  | 11.2  | 12.6  |
| 11   | 63.2                                                                       | 62.4  | 65.0  | 63.5  | 13.8                              | 8.9  | 9.9   | 13.3  | 10.2  | 11.1  |
| 12   | 67.8                                                                       | 67.8  | 69.2  | 68.3  | 15.7                              | 10.2 | 13.3  | 15.2  | 11.8  | 13.4  |
| 13   | 69.0                                                                       | 67.7  | 67.8  | 68.2  | 16.8                              | 11.4 | 13.2  | 16.1  | 12.7  | 14.0  |
| 14   | 67.5                                                                       | 67.1  | 67.8  | 67.5  | 15.4                              | 9.9  | 12.1  | 15.4  | 13.4  | 13.6  |
| 15   | 68.8                                                                       | 67.8  | 69.1  | 68.6  | 17.0                              | 10.4 | 13.0  | 16.1  | 12.9  | 14.0  |
| 16   | 68.8                                                                       | 67.2  | 67.0  | 67.7  | 17.3                              | 10.6 | 14.5  | 16.7  | 12.6  | 14.6  |
| 17   | 66.8                                                                       | 66.4  | 66.3  | 66.5  | 17.0                              | 11.0 | 14.0  | 16.1  | 12.9  | 14.3  |
| 18   | 66.8                                                                       | 66.4  | 66.4  | 66.5  | 18.4                              | 12.3 | 14.8  | 17.6  | 13.8  | 15.4  |
| 19   | 64.4                                                                       | 62.6  | 61.2  | 62.7  | 19.8                              | 14.4 | 15.9  | 15.9  | 14.9  | 15.6  |
| 20   | 56.7                                                                       | 55.6  | 56.8  | 56.4  | 21.8                              | 10.8 | 19.6  | 20.1  | 17.2  | 19.0  |
| 21   | 54.5                                                                       | 54.1  | 57.2  | 55.3  | 16.1                              | 9.9  | 14.7  | 10.7  | 13.3  | 12.9  |
| 22   | 61.4                                                                       | 62.0  | 64.0  | 62.5  | 17.8                              | 13.3 | 13.9  | 17.2  | 14.9  | 15.3  |
| 23   | 64.2                                                                       | 62.8  | 62.8  | 63.3  | 19.2                              | 14.6 | 16.8  | 18.3  | 17.2  | 17.4  |
| 24   | 62.8                                                                       | 62.1  | 61.9  | 62.3  | 18.0                              | 12.1 | 16.8  | 17.3  | 14.4  | 16.2  |
| 25   | 60.5                                                                       | 59.1  | 60.3  | 60.0  | 17.7                              | 9.2  | 14.8  | 17.1  | 12.9  | 14.9  |
| 26   | 62.7                                                                       | 63.1  | 65.0  | 63.6  | 17.4                              | 12.3 | 13.8  | 16.4  | 13.3  | 14.5  |
| 27   | 67.2                                                                       | 66.1  | 66.6  | 66.6  | 17.9                              | 11.4 | 14.8  | 17.7  | 12.9  | 15.1  |
| 28   | 64.7                                                                       | 64.0  | 63.1  | 63.9  | 19.6                              | 14.3 | 15.5  | 18.2  | 15.2  | 16.3  |
| 29   |                                                                            |       |       |       |                                   |      |       |       |       |       |
| 30   |                                                                            |       |       |       |                                   |      |       |       |       |       |
| 31   |                                                                            |       |       |       |                                   |      |       |       |       |       |
|      | 63.28                                                                      | 62.86 | 63.92 | 63.48 | 15.39                             | 9.32 | 12.16 | 14.14 | 11.63 | 12.64 |

Barometer, range for month 774.4 mm. — 754.1 mm.

71-yr. average for month 761.982 mm.

Thermometer, range for month 21.8°C — 0.6°C

71-yr. average for month 14.29°C.

Rain, total for month 138.69 mm.

71-yrs. average for month 157.75 mm.

,, Total, Sept. 1st. to end of month 596.14 mm.

71-yr. average, Sept. 1st. to end of month 722.30 mm

# FEBRUARY 1950

## METEOROLOGICAL REGISTER

| Date | Pressure of Water Vapor<br>Millibars |       |       |       | Relative Humidity<br>per cent. |       |       |      | sun. | Wind<br>per<br>day | Rain  |
|------|--------------------------------------|-------|-------|-------|--------------------------------|-------|-------|------|------|--------------------|-------|
|      | 8:30                                 | 14:30 | 20:30 | Mean  | 8:30                           | 14:30 | 20:30 | Mean | Hrs. | Kms.               | m.m.  |
| 1    | 10.9                                 | 11.0  | 9.2   | 10.4  | 88                             | 74    | 72    | 78   | 0.3  | 1046.0             | 17.28 |
| 2    | 7.1                                  | 8.3   | 7.5   | 7.6   | 54                             | 55    | 59    | 56   | 6.8  | 325.0              |       |
| 3    | 10.9                                 | 8.8   | 7.2   | 9.0   | 88                             | 66    | 62    | 72   | 2.7  | 528.0              | 6.86  |
| 4    | 6.3                                  | 7.6   | 4.6   | 6.2   | 67                             | 89    | 57    | 71   | 2.2  | 661.0              | 6.10  |
| 5    | 6.0                                  | 1.8   | 4.0   | 3.9   | 80                             | 16    | 46    | 47   | 1.6  | 563.0              | 10.92 |
| 6    | 6.3                                  | 6.5   | 5.6   | 6.1   | 96                             | 94    | 70    | 87   | 0.6  | 248.0              | 7.36  |
| 7    | 9.9                                  | 7.1   | 6.2   | 7.7   | 92                             | 54    | 65    | 70   | 8.1  | 35.0               | 0.25  |
| 8    | 6.8                                  | 6.2   | 6.8   | 6.6   | 59                             | 48    | 62    | 56   | 9.3  | 19.0               |       |
| 9    | 5.6                                  | 9.6   | 6.3   | 7.2   | 46                             | 63    | 53    | 54   | 10.2 | 35.0               |       |
| 10   | 9.3                                  | 12.0  | 11.4  | 10.9  | 67                             | 71    | 86    | 75   | 5.1  | 122.0              |       |
| 11   | 11.6                                 | 10.5  | 11.4  | 11.2  | 94                             | 69    | 94    | 86   | 7.1  | 64.0               | 14.48 |
| 12   | 10.5                                 | 11.1  | 10.5  | 10.7  | 69                             | 67    | 79    | 72   | 11.6 | 122.0              |       |
| 13   | 9.6                                  | 12.1  | 11.9  | 11.2  | 64                             | 65    | 80    | 70   | 10.0 | 48.0               |       |
| 14   | 12.3                                 | 12.5  | 12.9  | 12.6  | 88                             | 71    | 84    | 81   | 9.3  | 92.0               | 4.83  |
| 15   | 10.1                                 | 12.1  | 11.4  | 11.2  | 68                             | 64    | 80    | 71   | 10.1 | 71.0               |       |
| 16   | 11.5                                 | 12.6  | 11.9  | 12.0  | 70                             | 66    | 80    | 72   | 10.2 | 114.0              |       |
| 17   | 11.1                                 | 11.1  | 11.9  | 11.4  | 70                             | 61    | 82    | 71   | 10.3 | 132.0              |       |
| 18   | 11.0                                 | 13.3  | 13.4  | 12.6  | 65                             | 65    | 84    | 71   | 10.4 | 129.0              |       |
| 19   | 10.9                                 | 13.5  | 14.0  | 12.8  | 59                             | 58    | 80    | 66   | 10.0 | 122.0              |       |
| 20   | 8.0                                  | 12.0  | 13.6  | 11.2  | 37                             | 52    | 72    | 54   | 7.6  | 145.0              |       |
| 21   | 11.2                                 | 12.3  | 11.4  | 11.6  | 67                             | 97    | 76    | 80   | 2.1  | 298.0              | 52.32 |
| 22   | 13.0                                 | 14.2  | 12.0  | 13.1  | 81                             | 73    | 71    | 75   | 4.8  | 348.0              | 2.29  |
| 23   | 10.9                                 | 13.9  | 9.3   | 11.4  | 56                             | 66    | 46    | 56   | 8.9  | 360.0              |       |
| 24   | 12.9                                 | 13.7  | 11.5  | 12.7  | 68                             | 72    | 70    | 70   | 3.4  | 529.0              |       |
| 25   | 11.5                                 | 12.1  | 11.0  | 11.5  | 68                             | 64    | 74    | 69   | 5.4  | 148.0              | 0.76  |
| 26   | 11.9                                 | 11.1  | 10.1  | 11.0  | 75                             | 62    | 66    | 68   | 3.5  | 180.0              | 15.24 |
| 27   | 10.0                                 | 11.8  | 11.4  | 11.1  | 59                             | 59    | 77    | 65   | 8.0  | 134.0              |       |
| 28   | 12.5                                 | 9.8   | 13.5  | 11.9  | 71                             | 46    | 80    | 66   | 9.8  | 198.0              |       |
| 29   |                                      |       |       |       |                                |       |       |      |      |                    |       |
| 30   |                                      |       |       |       |                                |       |       |      |      |                    |       |
| 31   |                                      |       |       |       |                                |       |       |      |      |                    |       |
|      | 9.99                                 | 10.66 | 10.07 | 10.24 | 70.2                           | 65.2  | 71.6  | 68.9 | 6.76 | 250.57             | 4.95  |

Height of Barometer above sea level: 33.7 meters.

„ „ Thermometers above ground:

Dry and wet 1.55 m ; Max. 1.75 m.; Min. 1.70 m.

Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.

Time of reading minus 2 hours equal G.C.T.

71 year averages are for period, 1875-1945

# FEBRUARY 1950

## METEOROLOGICAL REGISTER

| Date | Clouds clear—0<br>Overcast—10 |         |        |      | Direction and<br>force of wind<br>Beaufort scale |       |       | Sea    | Notes            |
|------|-------------------------------|---------|--------|------|--------------------------------------------------|-------|-------|--------|------------------|
|      | 8:30                          | 14:30   | 20:30  | Mean | 8:30                                             | 14:30 | 30:20 |        |                  |
| 1    | 10ni                          | 10ni    | 7cu-ci | 9.0  | 4sw                                              | 4sw   | 5sw   | mod.   | T. a.m. ; G.     |
| 2    | 2cu                           | 1cu-ci  | 5cu    | 2.7  | 1sw                                              | 2nw   | 1nw   | mod.   |                  |
| 3    | 10ni-cu                       | 10cu-ni | 10ni   | 10.0 | 2se                                              | 1n    | 5ne   | slight | W. at night      |
| 4    | 9cu-ni                        | 9cu     | 10cu   | 9.3  | 5n                                               | 2ne   | 1nw   | mod.   | Snow a.m., p.m.  |
| 5    | 8cu-ni                        | 10cu-ni | 3ci-cu | 7.0  | 6ne                                              | 3w    | 3nw   | mod.   | Snow, Hail, p.m. |
| 6    | 10ni                          | 10-ni   | 8cu-ni | 9.3  | 3ne                                              | 2s    | 2s    | "      | Snow a.m. 5cm.   |
| 7    | 3cu                           | 4cu     | 1cu    | 2.7  | 1se                                              | 2n    | 1n    | light  |                  |
| 8    | 0                             | 0       | 0      | 0.0  | 1se                                              | 1n    | 0     | "      |                  |
| 9    | 0                             | 0       | 0      | 0.0  | 1se                                              | 2ne   | 1n    | "      |                  |
| 10   | 8st-ci                        | 7cu-st  | 8cu    | 7.7  | 2sw                                              | 3sw   | 1sw   | "      |                  |
| 11   | 9ni                           | 9st-ni  | 9ni    | 9.0  | 1s                                               | 1sw   | 1nw   | "      |                  |
| 12   | 3cu                           | 2cu     | 0      | 1.7  | 1se                                              | 2w    | 1sw   | "      |                  |
| 13   | 3st                           | 0       | 6cu    | 3.0  | 1se                                              | 1sw   | 0     | "      |                  |
| 14   | 9cu-ni                        | 3cu     | 2cu    | 4.7  | 1s                                               | 1sw   | 2nw   | "      |                  |
| 15   | 0                             | 0       | 0      | 0.0  | 2sw                                              | 1nw   | 1nw   | "      |                  |
| 16   | 0                             | 0       | 0      | 0.0  | 1s                                               | 2n    | 1n    | "      |                  |
| 17   | 0                             | 0       | 0      | 0.0  | 1ne                                              | 2ne   | 2ne   | "      | D. a.m. ; D. p.m |
| 18   | 0                             | 0       | 0      | 0.0  | 2s                                               | 2n    | 1n    | "      | D. p. m.         |
| 19   | 0                             | 0       | 0      | 0.0  | 1ne                                              | 2nw   | 1nw   | "      | D. a. m; D. p.m. |
| 20   | 8ci-st                        | 9ci-st  | 10st   | 9.0  | 2sw                                              | 1sw   | 3sw   | "      |                  |
| 21   | 5cu-ci                        | 10ni    | 7cu-ni | 7.3  | 3sw                                              | 1se   | 3nw   | "      |                  |
| 22   | 6cu-st                        | 7cu     | 7cu    | 6.7  | 2se                                              | 3sw   | 3sw   | slight |                  |
| 23   | 3ci-st                        | 0       | 4ci    | 2.3  | 3sw                                              | 3ne   | 4n    | "      |                  |
| 24   | 10ci-st                       | 10cu-st | 7cu    | 9.0  | 4sw                                              | 3sw   | 2sw   | "      |                  |
| 25   | 9ci-cu                        | 4cu-ci  | 3cu-ci | 5.3  | 1s                                               | 1nw   | 1nw   | light  |                  |
| 26   | 7cu                           | 8cu     | 4cu    | 6.3  | 2w                                               | 2w    | 2w    | "      |                  |
| 27   | 8cu-st                        | 2ci     | 3ci    | 4.3  | 1n                                               | 1n    | 1n    | "      |                  |
| 28   | 3ci                           | 0       | 0      | 1.0  | 1ne                                              | 2ne   | 1ne   | "      |                  |
| 29   |                               |         |        |      |                                                  |       |       |        |                  |
| 30   |                               |         |        |      |                                                  |       |       |        |                  |
| 31   |                               |         |        | 4.55 |                                                  |       |       |        |                  |

Abbreviations :— G = gale ; H = haze ; M = mist ; T = thunderstorm ; D = dew.  
W = strong wind ; Tr = trace of rain

### NUMBER OF DAILY WIND OBSERVATIONS

| Time  | N  | NE | E | SE | S | SW | W | NW | Calm | Totals |
|-------|----|----|---|----|---|----|---|----|------|--------|
| 8:30  | 2  | 5  | 0 | 7  | 5 | 8  | 1 | 0  | 0    | 28     |
| 14:30 | 6  | 5  | 0 | 1  | 1 | 8  | 3 | 4  | 0    | 28     |
| 20:30 | 6  | 3  | 0 | 0  | 1 | 6  | 1 | 9  | 2    | 28     |
| Total | 14 | 13 | 0 | 8  | 7 | 22 | 5 | 13 | 2    | 84     |

Number of days with rain 12, fog 0, thunderstorms 1, gale 1.

71 yr. av. number of days with rain during month 13.9